

Listing of Claims.

1. (currently amended) A piston-cam engine, which includes:

a drive cylinder;

a drive piston operably disposed within said cylinder having a piston head and a shaft;

a support frame having a generally cylindrical bearing surface;

a drive shaft rotatably movably received within said cylindrical bearing surface;

a cam having a peripheral surface and having a plurality of lobes thereon;

a roller member connected to said piston shaft and adapted for engagement with said

peripheral surface of said cam; and

spring biasing means for biasing said roller member continuously against said peripheral surface of said cam.

2. (previously presented) The piston-cam engine of claim 1, which includes a support drive plate interconnecting said piston shaft and said roller member.

3. (previously presented) The piston-cam engine of claim 2, which further includes a first slave cylinder adjacent said drive cylinder and has a first slave piston operably disposed in said slave cylinder and has a piston head and a shaft, wherein said first slave piston shaft is connected to said support drive plate to absorb part of a force exerted on said support plate during operation of said engine.

4. (currently amended) A piston-cam engine, which includes:

a drive cylinder;

a drive piston operably disposed within said cylinder having a piston head and a shaft;

a support frame having a generally cylindrical bearing surface;
a drive shaft rotatably movably received within said cylindrical bearing surface;
a cam having a peripheral surface and having a plurality of lobes thereon;
a roller member connected to said piston shaft and adapted for engagement with said peripheral surface of said cam;
spring biasing means for biasing said roller member continuously against said peripheral surface of said cam;

a first slave cylinder adjacent said drive cylinder and has a first slave piston operably disposed in said slave cylinder and has a piston head and a shaft, wherein said first slave piston shaft is connected to said support drive plate to absorb part of a force exerted on said support plate during operation of said engine; and

~~The piston-cam engine of claim 3, which further includes~~ a second slave cylinder adjacent said drive cylinder and has a second slave piston operably disposed in said slave cylinder and has a piston head and a shaft, wherein said second slave piston shaft is connected to said support drive plate to absorb part of a force exerted on said support plate during operation of said engine.

5. (currently amended) A piston-cam engine, which includes:

a drive cylinder;

a drive piston operably disposed within said cylinder having a piston head and a shaft;

a support frame having a generally cylindrical bearing surface;

a drive shaft rotatably movably received within said cylindrical bearing surface;

a cam having a peripheral surface and having a plurality of lobes thereon;

a roller member connected to said piston shaft and adapted for engagement with said

peripheral surface of said cam;

a support drive plate interconnecting said piston shaft and said roller member;

spring biasing means for biasing said roller member continuously against said peripheral surface of said cam; and

a first slave cylinder adjacent said drive cylinder and has a first slave piston operably disposed in said slave cylinder and has a piston head and a shaft, wherein said first slave piston shaft is connected to said support drive plate to absorb part of a force exerted on said support plate during operation of said engine.

6. (currently amended) A piston-cam engine, which includes:

a drive cylinder;

a drive piston operably disposed within said cylinder having a piston head and a shaft;

a support frame having a generally cylindrical bearing surface;

a drive shaft rotatably movably received within said cylindrical bearing surface;

a cam having a peripheral surface and having a plurality of lobes thereon;

a roller member connected to said piston shaft and adapted for engagement with said peripheral surface of said cam;

a support drive plate interconnecting said piston shaft and said roller member;

a first slave cylinder adjacent said drive cylinder and has a first slave piston operably disposed in said slave cylinder and has a piston head and a shaft, wherein said first slave piston shaft is connected to said support drive plate to absorb part of a force exerted on said support plate during operation of said engine; and

~~The piston-cam engine of claim 5, which further includes a second slave cylinder adjacent said~~

drive cylinder and has a second slave piston operably disposed in said slave cylinder and has a piston head and a shaft, wherein said second slave piston shaft is connected to said support drive plate to absorb part of a force exerted on said support plate during operation of said engine.

7. (cancelled) ~~The piston-cam engine of claim 5, biasing means for biasing said roller member continuously against said peripheral surface of said cam.~~

8. (currently amended) The piston-cam engine of claim 6, which further includes spring biasing means for biasing said roller member continuously against said peripheral surface of said cam.